

IN THE CLAIMS:

1. (Previously presented) A battery mounting for detachable placement in a device, the battery mounting comprising:

a housing for at least one battery cell;

a clip having a cammed surface for providing cooperation between the housing and a portion of the device;

a lock for applying a force to the clip for locking the battery mounting in place in the device; and

at least one power contact for connecting the at least one battery cell to the device; wherein the lock provides a load in the engaging direction of the at least one power contact.

2. (Previously presented) A battery mounting as claimed in claim 1, wherein the lock comprises one of a screw and a clamp applied to the clip.
3. (Original) A battery mounting as claimed in claim 1, wherein the clip deflects to allow mounting in the device and the cammed surface acts with the portion of the device to urge the battery mounting into the correct mounted position relative to the device.
4. (Previously presented) A battery mounting as claimed in claim 1, wherein the clip comprises a protrusion with a central support between a first end and a second end of the protrusion, the first end has the cammed surface and engages the portion of the device, the lock acts on the second end of the protrusion, the protrusion is deflectable about the central support.
5. (Previously presented) A battery mounting as claimed in claim 1, wherein the battery mounting is adapted for mounting slidably within an opening in the device and the

battery mounting has at least one hook at each of a bottom end and a top end of the battery mounting for hooking through openings in the device.

6. (Previously presented) A battery mounting as claimed in claim 1, wherein the housing and the clip are formed of a one piece plastic moulding.
7. (Previously presented) A battery mounting as claimed in claim 1, wherein the battery mounting comprises a logic device with sprung logic contacts for connecting to corresponding power contacts on the device.
8. (Previously presented) A battery mounting as claimed in claim 7, wherein the logic device comprises a printed circuit board containing data about the at least one battery cell.
9. (Previously presented) A device with a detachable battery mounting, the device comprising:

a board with an opening in which the battery mounting is detachably mounted;

at least one power contact disposed on the cross-section of the board within the opening; and

the battery mounting comprising:

a housing for at least one battery cell;

a clip having a cammed surface for providing cooperation between the housing and a portion of the board;

a lock applying a force to the clip for locking the battery mounting in place in the opening; and

at least one power contact connecting the at least one battery cell to the at least one power contact on the board; wherein the lock provides a load in the engaging

direction of the at least one power contact .

10. (Previously presented) A device as claimed in claim 9, wherein the lock comprises one of a screw and a clamp applied to the clip.
11. (Original) A device as claimed in claim 9, wherein the clip deflects to allow mounting in an aperture of the device and the cammed surface acts with the aperture in the device to urge the battery mounting into the correct mounted position relative to the device.
12. (Previously presented) A device as claimed in claim 9, wherein the clip is a protrusion with a central support between a first end and a second end of the protrusion, the first end has the cammed surface and engages an aperture in the device, the lock acts on the second end of the protrusion, the protrusion is deflectable about the central support.
13. (Previously presented) A device as claimed in claim 9, wherein the battery mounting is detachably mounted slidably within the opening in the device and the battery mounting has at least one hook at each of a bottom end and a top end of the battery mounting for location through openings in the device.
14. (Previously presented) A device as claimed in claim 9, wherein the battery mounting is recessed within the opening of the board.
15. (Previously presented) A device as claimed in claim 9, wherein the housing and the clip are formed of a one-piece plastic moulding.
16. (Previously presented) A device as claimed in claim 9, wherein the battery mounting comprises a logic device with sprung logic contacts for connecting to corresponding contacts on the device.
17. (Currently amended) A device as claimed in claim 16 9, wherein the logic device comprises a printed circuit board containing data about the at least one battery cell .

18. (Previously presented) A device as claimed in claim 9, wherein the board comprises a printed circuit board.

19. (Previously presented) A device as claimed in claim 9, wherein the device comprises a storage peripheral component interface (PCI) adapter.

20. (Withdrawn) A method of inserting a battery mounting in a device, comprising:

slidably engaging the battery mounting within an opening in the device;

engaging at least one hook on the battery mounting with openings in the device;

engaging in an aperture of the device a clip of the battery mounting comprising a cammed surface; the cammed surface urging the

battery mounting into the correct mounted position relative to the device; and

locking the battery mounting relative to the device with a locking device for applying a force to the clip in the engaging direction of power contacts in the device.

21. (Previously presented) A battery mounting for detachable placement in a device, the battery mounting comprising:

means for housing at least one battery cell;

means for providing engagement between the means for housing and a portion of the device;

means for applying a force to the means for providing engagement for locking

the battery mounting in place in the device; and

at least one power contact for connecting the at least one battery cell to the device; wherein the means for applying force provides a load in an engaging direction of the at least one power contact.

22. (Previously presented) A battery mounting as in claim 21, further comprising logic means for monitoring battery information.

23. (Previously presented) A battery mounting as in claim 22, wherein the battery information comprises at least one of: current charge state, lifetime, power-on-hours, and expected discharge characteristics.

24. (Withdrawn) An apparatus for enabling continuous operation of a circuit board during the replacement of at least one battery connected thereto, comprising:

a battery housing detachably mounted to the circuit board, the battery housing adapted for containing at least one battery cell and comprising a clip having a cammed surface for sliding engagement with the circuit board within an opening of the circuit board; a lock for applying a force to the clip for urging the clip against the circuit board within the opening; and power contacts of the battery housing for electrically connecting the at least one battery cell to corresponding power contacts of the circuit board; wherein the lock provides a load in an engaging direction of the power contacts of the battery housing; wherein the apparatus is adapted for removal and replacement during operation of the circuit board.

25. (Withdrawn) An apparatus as in claim 24, wherein an edge of the opening comprises the power contacts of the circuit board.

26. (Withdrawn) An apparatus as in claim 24, wherein a wall of the battery housing comprises the power contacts of the battery housing.

27. (Withdrawn) An apparatus as in claim 24 wherein the circuit board comprises a peripheral component interface (PCI) adapter.

28. (Withdrawn) A method of replacing at least one battery of a circuit board, the method comprising:

providing the circuit board to comprise an opening for containing a detachable battery housing for at least one battery cell, the housing comprising a clip having a cammed surface for providing cooperation between the housing and a portion of the opening, the housing further comprising a lock for applying a force to the clip for locking the battery housing in place in the opening and power contacts for electrically connecting the at least one battery cell to the circuit board, said power contacts comprising first power contacts disposed on said housing and second power contacts disposed adjacent to said opening on said circuit board, where the lock provides a load in the engaging direction of the power contacts and attaches the battery housing to the circuit board;

during operation of electronic components disposed on said circuit board,

operating the lock so as to remove the load in the engaging direction of the power contacts for detaching the battery housing from the circuit board;

exchanging the at least one battery cell in the housing with at least one replacement battery cell; and

operating the lock so as to apply the load in the engaging direction of the power contacts for attaching the battery housing to the circuit board.

29. (Withdrawn) A method as in claim 28, where operation of the electronic circuitry is not disrupted.

30. (Withdrawn) A method as in claim 28, where said circuit board and electronic circuitry comprise a peripheral component interface (PCI) of a data storage system.